

Gang Luo - DTU Orbit (06/08/2016)

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Publications:

Comparative analysis of taxonomic, functional, and metabolic patterns of microbiomes from 14 full-scale biogas reactors by metagenomic sequencing and radioisotopic analysis

Luo, G., Fotidis, I. & Angelidaki, I. 2016 In : *Biotechnology for Biofuels*. 9, 12 p., 51

Publication: Research - peer-review › Journal article – Annual report year: 2016

Analysis of bacterial communities and bacterial pathogens in a biogas plant by the combination of ethidium monoazide, PCR and Ion Torrent sequencing

Luo, G. & Angelidaki, I. 2014 In : *Water Research*. 60, p. 156-163 8 p.

Publication: Research - peer-review › Journal article – Annual report year: 2014

Anaerobic digestion for simultaneous sewage sludge treatment and CO biomethanation: process performance and microbial ecology

Luo, G., Wang, W. & Angelidaki, I. 2013 In : *Environmental Science & Technology (Washington)*. 47, 18, p. 10685–10693

Publication: Research - peer-review › Journal article – Annual report year: 2013

Co-digestion of manure and whey for in situ biogas upgrading by the addition of H₂: process performance and microbial insights

Luo, G. & Angelidaki, I. 2013 In : *Applied Microbiology and Biotechnology*. 97, 3, p. 1373-1381

Publication: Research - peer-review › Journal article – Annual report year: 2012

Enhanced thermophilic fermentative hydrogen production from cassava stillage by chemical pretreatments

Wang, W., Luo, G., Xie, L. & Zhou, Q. 2013 In : *Water Science and Technology*. 68, 1, p. 59-67 10 p.

Publication: Research - peer-review › Journal article – Annual report year: 2013

Hollow fiber membrane based H₂ diffusion for efficient in situ biogas upgrading in an anaerobic reactor

Luo, G. & Angelidaki, I. 2013 In : *Applied Microbiology and Biotechnology*. 97, 8, p. 3739-3744

Publication: Research - peer-review › Journal article – Annual report year: 2013

Influence of activated carbon amended ASBR on anaerobic fermentative hydrogen production

Xie, L., Wang, L., Zhou, Q. & Luo, G. 2013 In : *Tongji Daxue Xuebao (Ziran Kexue Ban)*. 41, 5, p. 728-734

Publication: Research - peer-review › Journal article – Annual report year: 2013

Methods and apparatus for hydrogen based biogas upgrading

Luo, G., Angelidaki, I. & Lyhne, P. 2013

Publication: Research › Patent – Annual report year: 2013

Performance and microbial community analysis of the anaerobic reactor with coke oven gas biomethanation and in situ biogas upgrading

Wang, W., Xie, L., Luo, G., Zhou, Q. & Angelidaki, I. 2013 In : *Bioresource Technology*. 146, p. 234–239

Publication: Research - peer-review › Journal article – Annual report year: 2013

Integrated biogas upgrading and hydrogen utilization in an anaerobic reactor containing enriched hydrogenotrophic methanogenic culture

Luo, G. & Angelidaki, I. 2012 In : *Biotechnology and Bioengineering (Print)*. 109, 11, p. 2729-2736 8 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

Optimization of biohydrogen and methane recovery within a cassava ethanol wastewater/waste integrated management system

Wang, W., Xie, L., Luo, G. & Lu, Q. 2012 In : Bioresource Technology. 120, p. 165-172

Publication: Research - peer-review › Journal article – Annual report year: 2012

Biohydrogen and methane production by co-digestion of cassava stillage and excess sludge under thermophilic condition

Wang, W., Xie, L., Chen, J., Luo, G. & Zhou, Q. 2011 In : Bioresource Technology. 102, 4, p. 3833-3839

Publication: Research - peer-review › Journal article – Annual report year: 2011

Enhanced bioenergy recovery from rapeseed plant in a biorefinery concept

Luo, G., Talebnia, F., Karakashev, D. B., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 2, p. 1433-1439

Publication: Research - peer-review › Journal article – Annual report year: 2011

Enhancement of bioenergy production from organic wastes by two-stage anaerobic hydrogen and methane production process

Luo, G., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 18, p. 8700-8706

Publication: Research - peer-review › Journal article – Annual report year: 2011

Long-term effect of inoculum pretreatment on fermentative hydrogen production by repeated batch cultivations: homoacetogenesis and methanogenesis as competitors to hydrogen production

Luo, G., Karakashev, D. B., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Biotechnology and Bioengineering (Print). 108, 8, p. 1816-1827

Publication: Research - peer-review › Journal article – Annual report year: 2011

Metangas kan blive en genvej til brintsamfundet

Angelidaki, I., Luo, G. & Lyhne, P. 2011 In : FIB - Forskning i Bioenergi, Brint & Brændselsceller. 37, p. 3-4

Publication: Research - peer-review › Journal article – Annual report year: 2012

Simultaneous hydrogen utilization and in situ biogas upgrading in an anaerobic reactor

Luo, G., Johansson, S., Boe, K., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Biotechnology and Bioengineering (Print). 109, 4, p. 1088-1094

Publication: Research - peer-review › Journal article – Annual report year: 2011

Anaerobic treatment of cassava stillage for hydrogen and methane production in continuously stirred tank reactor (CSTR) under high organic loading rate (OLR)

Luo, G., Xie, L., Zou, Z., Wang, W., Zhou, Q. & Shim, H. 2010 In : International Journal of Hydrogen Energy. 35, 21, p. 11733-11737

Publication: Research - peer-review › Journal article – Annual report year: 2010

Cassava Stillage Treatment by Thermophilic Anaerobic Continuously Stirred Tank Reactor (CSTR)

Luo, G., Xie, L., Zou, Z. & Zhou, Q. 2010 In : A I P Conference Proceedings Series. 1251, 1, p. 49

Publication: Research › Journal article – Annual report year: 2010

Effect of initial pH on thermophilic fermentative hydrogen production from cassava ethanol wastewater

Luo, G., Xie, L., Zou, Z. & Zhou, Q. 2010 In : Tongji Daxue Xuebao/Journal of Tongji University. 38, 7, p. 1036-1040,1068

Publication: Research › Journal article – Annual report year: 2010

Evaluation of pretreatment methods on mixed inoculum for both batch and continuous thermophilic biohydrogen production from cassava stillage

Luo, G., Xie, L., Zou, Z., Wang, W. & Zhou, Q. 2010 In : Bioresource Technology. 101, 3, p. 959-964

Publication: Research - peer-review › Journal article – Annual report year: 2010

Exploring optimal conditions for thermophilic fermentative hydrogen production from cassava stillage

Luo, G., Xie, L., Zou, Z., Wang, W. & Zhou, Q. 2010 In : International Journal of Hydrogen Energy. 35, 12, p. 6161-6169

Publication: Research - peer-review › Journal article – Annual report year: 2010

Fermentative hydrogen production from cassava stillage by mixed anaerobic microflora: Effects of temperature and pH
Luo, G., Xie, L., Zou, Z., Zhou, Q. & Wang, J-Y. 2010 In : Applied Energy. 87, 12, p. 3710-3717
Publication: Research - peer-review › Journal article – Annual report year: 2010

Enhanced treatment efficiency of an anaerobic sequencing batch reactor (ASBR) for cassava stillage with high solids content
Luo, G., Xie, L. & Zhou, Q. 2009 In : Journal of Bioscience and Bioengineering. 107, 6, p. 641-645
Publication: Research - peer-review › Journal article – Annual report year: 2009

Projects:

Integration of biomass and wind power for biogas enhancement and upgrading via hydrogen assisted anaerobic digestion
Kougias, P., Luo, G. & Angelidaki, I.
01/07/2013 → ...
Project

An innovative process for simultaneous utilization of hydrogen and in-situ biogas upgrading
Luo, G. & Angelidaki, I.
01/07/2012 → 30/06/2015
Project